DAQ box settings

Input: ai0

Testing Inputs
Current: N/A
Voltage: N/A

NI Device: Sim
Opto Output: ao0
Sample rate: 1e+05
Electro Output: ao1

Test Impedance

Start Session
☑ Select default

Measured Impedance:

Single Pulse — Light

Generated Signal — Light

E-Stim Parameters

Pulse type: Bipolar ...
Amplitude (mA): 1
Pulse width (µs): 100
Interpulse (s): 0.1
Delay time (s): 0.2
Number of pulses: 3

Start

Optical Stimulation Parameters

Optical Stim type: Excitatory **29**
Delay time for e-stim (ms): 0 **30**
Light Intensity: 5 **31**
Optical Pulse width (ms): 20 **32**

(dial: 2, 3, 1, 4, 0.75, 0.5, 0.1, 5)

Quick Trig

Recorded Data — Light, Data

Recruitment Curve

Minimum current amplitude (mA): 0.1
Maximum current amplitude (mA): 2
Step size (mA): 0.1
Period (seconds): 3

Start Recruitment Curve

Save Options

File name: Opto
☑ Autosave **Save**
☑ Minimize Variable Saving

Generate Plot

Load Data

Analyze H Reflex M/H cutoff (ms): 8

Trial #: 2

Directory: C:\Users\George\Documents\hreflex_gui/Opto_Excitatory_2
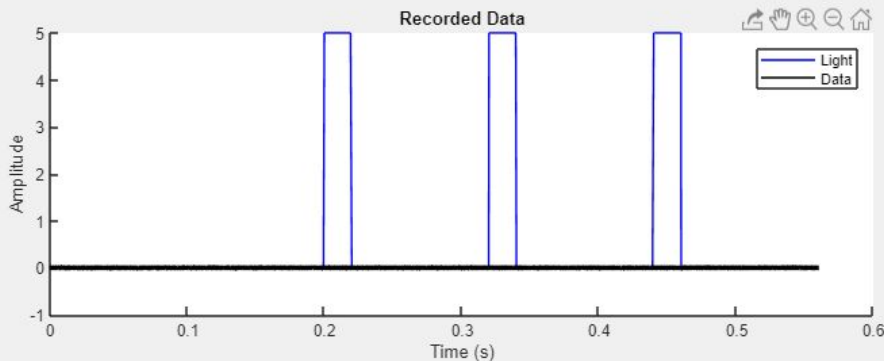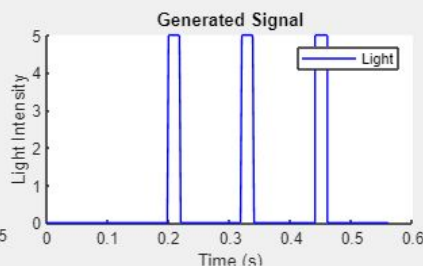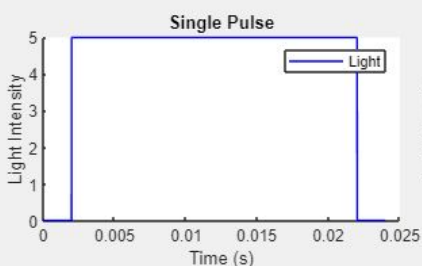
Explanation of functions (Opto version)

29 Chooses the optical stimulation type: "Excitatory" outputs only a light pulse, "Inhibitory" outputs a light pulse followed by a brief electrical pulse.
30 Specifies when the electric pulse is sent after the delivery of the light pulse
31 Specifies the light intensity: 0 is no light and 5 is maximum light. The LED driver is [turned on at 0] and the option 0 delivers a 5V pulse to the driver, and the option 5 delivers a 0 V to the driver, which turns it on
32 Specifies the length of the optical pulse in ms